

ABSTRACT OF THE DISCLOSURE

A semiconductor wafer cleaning formulation, including 1-21% wt. fluoride source, 20-55% wt. organic amine(s), 0.5-40% wt. nitrogenous component, e.g., a nitrogen-containing carboxylic acid or an imine, 23-50% wt. water, and 0-21% wt. metal chelating agent(s). The formulations are useful to remove residue from wafers following a resist plasma ashing step, such as inorganic residue from semiconductor wafers containing delicate copper interconnecting structures.

10

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